Electronic Indicating Temperature Transmitter/Switch





FEATURES

- Compact dimensions
- Simple handling
- Cost effective
- Service-friendly
- Customized solutions

TEMPERATURE RANGES

-50 °F to 400 °F

-50 °F to 1,100 °F

-50 °F to 750 °F

-300 °F to 1,100 °F

Protective Cover Option

- · Made of a thermoplastic polyurethane (TPU) material which is resistant to oil, grease and abrasion
- · Protects the sensor while maintaining clear viewing and rotation of the display
- · The elastic properties of the material allows set point programming without having to remove the cover
- · Increases environmental protection to IP67 for indoor and outdoor use



- Mechanical engineering
- Heating and cooling circuits
- Air conditioning technology
- Plant construction
- Environmental technology



850 SERIES

- · Utilizes PT100 technology to provide continuous temperature monitoring, electronic temperature switching, and transmission of analog output of 4-20 mA while providing local digital indication
- · Allows for one or two switching outputs as well as an optional analog output
- Two buttons on top allow simple adjustment of the temperature set points, reset points, switching functions and the measuring range of the optional analog output
- Wide measuring range (between -300 °F and 1,100 °F / -200 °C and 600 °C) covers the majority of temperature measuring and switching applications
- 1/2" NPT male standard connection, 1/4" NPT optional
- A variety of stem lengths are available for maximum versatility (also available with adjustable insertion lengths)
- · A version with tapered stem is also available for rapid response times
- Durable stainless steel housing and wetted parts
- The housing and replaceable measuring insert are screwed together to allow the exchange of the measuring insert without opening the connection to the process

	SPECIFICATIONS			
Temperature ranges	Standard ranges from -300 °F to 1,100 °F (-200 °C to 600 °C) Selectable display for °F or °C			
Temperature sensor	Platinum resistor (PT100 2-wire, Class B)			
Wetted materials	316Ti Stainless steel			
Housing material	Stainless steel			
Working pressure	6 mm Stem Diameter; 600 psi 8 mm Stem Diameter; 1,500 psi			
Power supply*	12 Vdc to 30 Vdc, unregulated			
Power consumption	≤ 50 mA, without load			
Signal output	4 mA to 20 mA scaleable from 20-100% of range			
Switch Points Number Function Adjustment	Individually adjustable via external control keys 1 or 2 (PNP) NO / NC; windows-and hysteresis function freely adjustable Set point: 0.1° steps within temperature range Reset point: 0.1° steps from beginning temperature range until (set point -0.1°)			
Switch rating	100 mA per switch			
Electrical connection	M12 x 1 (4-pin)			
Accuracy	Class B +0.1% of the temperature range			
Display	7 Segment-LED, red 4-digit, height 0.3"			
Temperature ranges Storage Ambient Influence	-22 °F to 176 °F (-30 °C to 80 °C) -13 °F to 158 °F (-25 °C to 70 °C) ±0.006% of measuring range per °F			
Environmental protection	NEMA 4; IP65 (IEC 529)			
Weight	0.66 lb. depending on stem length			

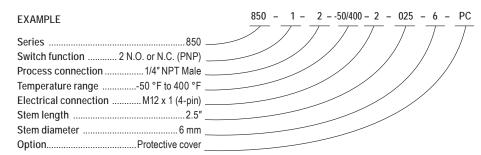
^{*} Unregulated power supply



WIRING DIAGRAMS **ELECTRICAL CONNECTIONS**

ORDERING INFORMATION								
SERIES	850							
SWITCH FUNCTIONS	1	2 N.O. or N.C. switch-PNP						
	2	1 N.O. or N.C. switch-PNP (with 4 mA to 20 mA analog output)						
PROCESS CONNECTIONS	2	1/4" NPT Male	8	1/2" NPT Male				
TEMPERATURE RANGES	-50/400	-50 °F to 400 °F	32/1100	32 °F to 1,100 °F				
	32/750	32 °F to 750 °F	-300/1100	-300 °F to 1,100 °F				
ELECTRICAL CONNECTION	2	M12 x 1 (4-pin)						
STEM LENGTHS	025	2.5"	060	6"	120 12"			
	040	4"	090	9"				
STEM DIAMETERS	3	Tapered from 6 mm - 3 mm tip	6	6 mm	8 8 mm			
OPTION	PC	Protective Cover (IP67)	•					

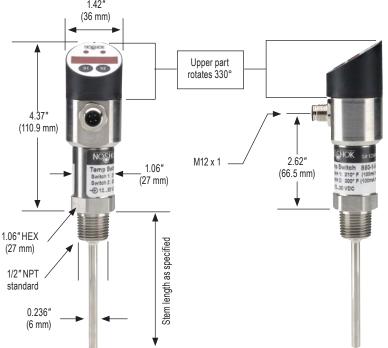
Please consult your local NOSHOK Distributor or NOSHOK, Inc. for availability and delivery information.



Additional Ordering Information Switch Set Point(s) (please specify)

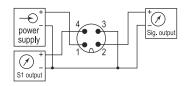
1.42" (36 mm)

Outline Dimensions



Wiring Diagrams

1 switching output (M12 x 1) with 4 mA to 20 mA Signal p-switching



2 switching output (M12 x 1) p-switching

